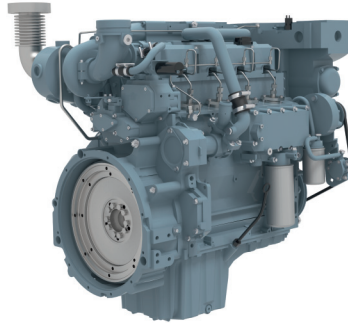


# BFM 1013M

for marine applications

72 - 195 kW|97 - 261 hp at 1500 - 2300 min<sup>-1</sup>|rpm  
emission certified & type approved

- Water-cooled 4 and 6-cylinder inline engines with turbocharging and charge air cooling
- Low fuel consumption, low maintenance costs and long engine life reduce the operating costs.
- 100% power take-off at flywheel and front end and additionally three PTO drives with a total torque of up to 187 Nm.
- The engine-driven cooling water pumps simplify the installation for keel and raw-water cooling.



- The engines fulfil the emission limit values in accordance with IMO, EU and ZKR (CCNR).

- DEUTZ marine engines are developed especially for the requirements of marine applications and meet the requirements of the classification societies. Type Approvals of the IACS classes<sup>1)</sup> and other classes are available on request.
- The extremely compact engine design and customer friendly accessories reduce the installation costs.
- The robust engine design allows worldwide operation even with high sulphur fuels.

## Technical data

Engine type		BF4M1013M	BF4M1013MC	BF6M1013M	BF6M1013MC	BF6M1013MCP
No. of cylinders		4	4	6	6	6
Bore/stroke	mm   in	108/130   4.25/5.12	108/130   4.25/5.12	108/130   4.25/5.12	108/130   4.25/5.12	108/130   4.25/5.12
Displacement	l   cu in	4.8   291	4.8   291	7.2   436	7.2   436	7.2   436
Compression ratio		17.6:1	17.6:1	17.6:1	17.6:1	17.0:1
Nominal speeds propulsion engines	min <sup>-1</sup>   rpm	1800 - 2300	1800 - 2300	1800 - 2300	1800 - 2300	1800 - 2300
Nominal speeds auxiliary engines	min <sup>-1</sup>   rpm	1500 / 1800	1500 / 1800	1500 / 1800	1500 / 1800	-
Specific fuel consumption <sup>2)</sup>	g/kWh   lb/hp-hr	217   0.36	202   0.33	215   0.35	204   0.34	204   0.34

Power output <sup>3)</sup>		BF4M1013M	BF4M1013MC	BF6M1013M	BF6M1013MC	BF6M1013MCP	
Propulsion engines - LG A	kW   hp	81   109	102   137	123   165	148   198	166   223	
	- LG B	kW   hp	95   127	118   158	129   173	174   233	195   261
Auxiliary engines	- LG G 50Hz	kW   hp	77   103	92   123	116   156	139   186	-
	60Hz	kW   hp	81   109	100   134	122   164	148   198	-
	- LG N 50Hz	kW   hp	81   109	97   130	122   164	146   196	-
	60Hz	kW   hp	85   114	105   141	128   172	155   208	-

- LG A:** Unlimited continuous operation with unlimited workload.  
**LG B:** Limited continuous operation: max. 3000 oh p.a.<sup>4)</sup>  
 Operating time with more than 90% of maximum power: max. 1500 oh p.a.  
 Admissible workload: max. 70% of rated power.  
**LG G:** Unlimited continuous operation with unlimited workload.  
**LG N:** Unlimited continuous operation with limited workload.  
 Operating time with more than 90% of maximum power: max. 6000 oh p.a.  
 Admissible workload: max. 80% of rated power.

- 1) IACS – International Association of Classification Societies  
 2) Best full load consumption refers to diesel with a density of 0.835 kg/dm<sup>3</sup> at 15°C | 6.96 lb/US gallon at 60°F.  
 3) Capacity data in accordance with ISO 3056-1.  
 Further ratings on request.  
 4) oh p.a.: Operating hours per year

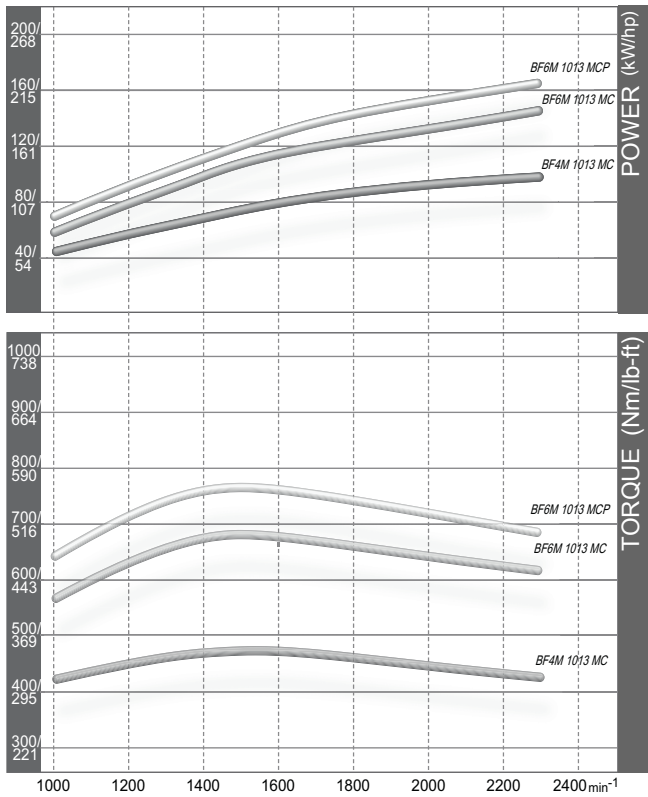
The data on this data sheet are for information purposes only and are not binding values. The data in the quotation is definitive.

## Torque curve

### Power group A

2300 min<sup>-1</sup>rpm

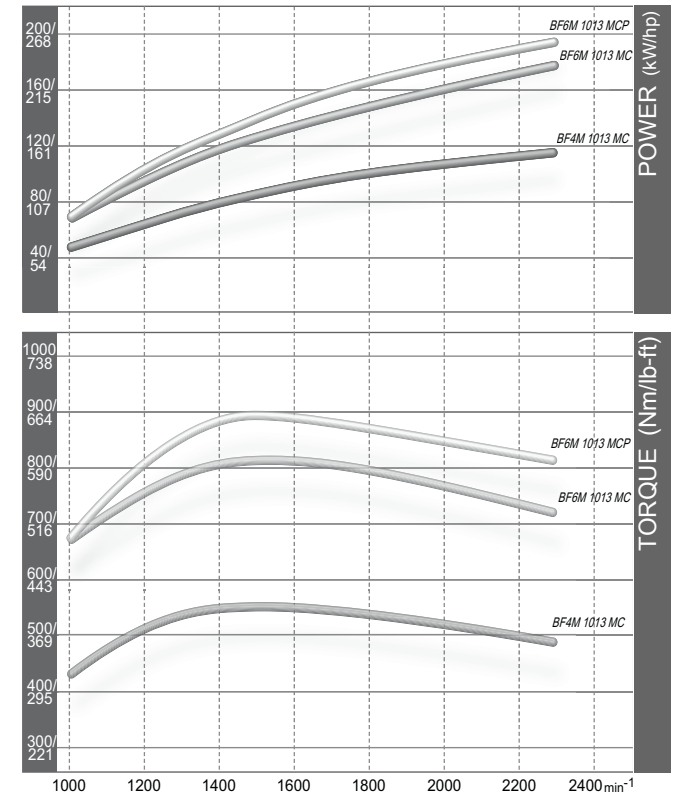
BF4M1013MC | BF6M1013MCI | BF6M1013MCP



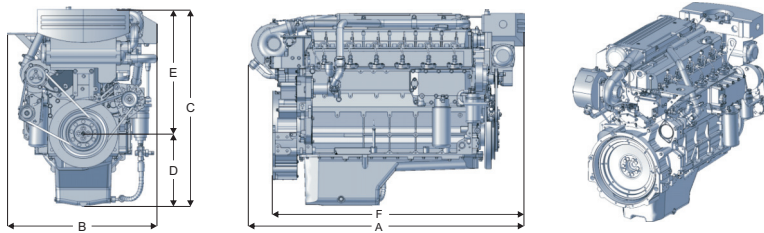
### Power group B

2300 min<sup>-1</sup>rpm

BF4M1013MC | BF6M 1013MCI | BF6M1013MCP

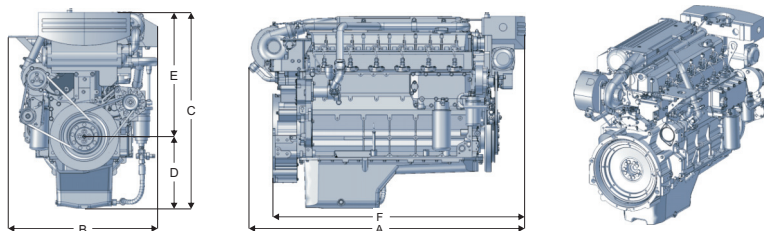


## Dimensions - raw water cooling



		A	B	C	D	E	F	Weight
BF4M1013M	mm   in	1125   44.3	666   26.2	1185   46.7	346   13.6	839   33.0	1016   40.0	560 kg   1235 lb
BF4M1013MC	mm   in	1125   44.3	666   26.2	1185   46.7	346   13.6	839   33.0	1016   40.0	580 kg   1279 lb
BF6M1013M	mm   in	1408   55.4	850   33.5	1197   47.1	360   14.2	837   33.0	1280   50.4	730 kg   1609 lb
BF6M1013MC/ MCP	mm   in	1408   55.4	850   33.5	1197   47.1	360   14.2	837   33.0	1280   50.4	760 kg   1676 lb

## Dimensions - keel cooling



		A	B	C	D	E	F	Weight
BF4M1013M	mm   in	1050   41.3	666   26.2	1185   46.7	346   13.6	839   33.0	942   40.0	540 kg   1190 lb
BF4M1013MC	mm   in	1050   41.3	666   26.2	1185   46.7	346   13.6	839   33.0	942   40.0	560 kg   1235 lb
BF6M1013M	mm   in	1334   52.5	850   33.5	1197   47.1	360   14.2	837   33.0	1206   50.4	710 kg   1565 lb
BF6M1013MC/ MCP	mm   in	1334   52.5	850   33.5	1197   47.1	360   14.2	837   33.0	1206   50.4	740 kg   1631 lb

Note: The engine dimensions and weights vary depending on the scope of delivery.  
For more information please contact the DEUTZ AG Köln or the responsible sales partner.

